EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	"imaging tool" and "temporary file system"	USPAT	OR	OFF	2007/04/12 08:07
L2	6	"imaging tool" and (temporary or temp) and "file system"	USPAT	OR	OFF	2007/04/12 08:35
L3	113	(last$2 or final or end$3) near2 sector same partition	USPAT	OR	OFF	2007/04/12 08:36
L4	39	(stor$3 or writ$2)same (last$2 or final or end$3) near2 sector same partition	USPAT	OR	OFF	2007/04/12 09:11
L5	6	("20030070029" | "20030189866" | "5195130" | "6182154" | "6266736" | "6602201").PN. OR ("7100011").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/12 09:04
L6	621	(stor$3 or writ$2)same (last$2 or final or end$3) near2 partition	USPAT	OR	OFF	2007/04/12 09:11
L7	399	(imag$3 or updat$3 or configur$5 or reconfigur$5) and (stor$3 or writ$2)same (last$2 or final or end$3) near2 partition	USPAT	OR	OFF	2007/04/12 09:13
L8	397	(imag$3 or updat$3 or configur$5 or reconfigur$5) and (stor$3 or writ$2)same (last$2 or final or end$3) near2 partition and (temporary or temp or temporarily or ghost or invisibl$2 or format$4 or unformat$4 or nonformat$4 or "file system" or bios or tool or multicast or end or fiinal or last$2 or recovery)	USPAT	OR	OFF	2007/04/12 09:58
S1	374	717/168.ccls.	USPAT	OR	OFF	2007/04/11 14:19
S2	188	717/171.ccls.	USPAT	OR	OFF	2007/04/11 14:19
S3	126	717/172.ccls.	USPAT	OR	OFF	2007/04/11 14:19
S4	301	717/174.ccls.	USPAT	OR	OFF	2007/04/11 14:19
S5	163	717/176.ccls.	USPAT	OR	OFF	2007/04/11 14:19
S6	168	717/177.ccls.	USPAT	OR	OFF	2007/04/11 14:19
S7	260	717/178.ccls.	USPAT	OR	OFF	2007/04/11 14:19
S8	41	"disk imaging"	USPAT	OR	OFF	2007/04/11 14:20
S9	5	"disk imaging" and partition and (temp or temporary)	USPAT	OR	ON	2007/04/11 14:52
S10	27	"disk imaging" and (temp or temporary)	USPAT	OR	ON	2007/04/11 15:59
S11	43436	imaging and end and (temp or temporary)	USPAT	OR	ON	2007/04/11 14:21
S12	647	imaging and stor$3 near2 (end or last) and (temp or temporary)	USPAT	OR	ON	2007/04/11 14:22

S13	911	imaging and (stor$3 or writ$3) near2 (end or last) and (temp or temporary)	USPAT	OR	ON	2007/04/11 14:22
S14	1314	imaging and (stor$3 or writ$3) near2 (end or last or front or begining or start) and (temp or temporary)	USPAT	OR	ON	2007/04/11 14:55
S15	3	"imaging tool" and (stor$3 or writ$3) near2 (end or last or front or begining or start) and (temp or temporary)	USPAT	OR	ON	2007/04/11 15:47
S16	1133	imaging and (stor$3 or writ$3) near2 (end or last or front or begining or start) and (temp or temporary) and (partition or segment or section or sector or buffer)	USPAT	OR	ON	2007/04/11 14:28
S17	0	imaging and (stor$3 or writ$3) near2 (end or last or front or begining or start) and (temp or temporary) and (partition or segment or section or sector or buffer)and (unformat$3 or "not formatted" or nonformatted)	USPAT	OR	ON	2007/04/11 14:29
S18	0	imaging and (stor$3 or writ$3) near2 (end or last or front or begining or start) and (temp or temporary) and (partition or segment or section or sector or buffer)and (unformat$3 or "not formatted" or nonformatted) and "file system"	USPAT	OR	ON	2007/04/11 14:29
S19	136	imaging and (stor$3 or writ$3) near2 (end or last or front or begining or start) and (temp or temporary) and (partition or segment or section or sector or buffer)and "file system"	USPAT	OR	ON	2007/04/11 14:30
S20	4	imaging and (stor$3 or writ$3) near2 (end or last or front or begining or start) and (temp or temporary) and (partition or segment or section or sector or buffer)and "file system" and "disk image"	USPAT	OR	ON	2007/04/11 15:46
S21	2	("6144992" "5764593").PN.	USPAT	OR	ON	2007/04/11 14:53
S22	21	("6144992").URPN.	USPAT	OR	OFF	2007/04/11 14:54
S23	10427	(stor$3 or writ$3) near2 (end or last or front or begining or start OR FINAL OR INITIAL) and (temp or temporary) AND (CLIENT OR SERVER OR HOST OR TARGET)	USPAT	OR	ON	2007/04/11 15:06

S24	7213	(stor$3 or writ$3) near2 (end$3 or last or front or begining or start OR FINAL OR INITIAL) and (temp or temporary) AND (CLIENT OR SERVER OR HOST OR TARGET) and (bios or kernel or kernal or boot or dos or "disk operating system" or unformat$4 or multicast or "operating system" or "file system" or "hard drive" or rom or "in memory" or "logical volume")	USPAT	OR	ON	2007/04/11 16:00
S25	0	S22 and S24	USPAT	OR	ON	2007/04/11 15:10
S26	0	"disk imaging" and (unformat$4 or nonformat$4 or "not format$4" or "non-formatted")	USPAT	OR	ON	2007/04/11 16:00
S27	818	imaging and (stor$3 or writ$3) near2 (end$3 or last or front or begining or start OR FINAL OR INITIAL) and (temp or temporary) AND (CLIENT OR SERVER OR HOST OR TARGET) and (bios or kernel or kernal or boot or dos or "disk operating system" or unformat$4 or multicast or "operating system" or "file system" or "hard drive" or rom or "in memory" or "logical volume")	USPAT	OR	ON	2007/04/11 16:01
S28	4	("imaging tool" or "disk imaging") and (stor$3 or writ$3) near2 (end$3 or last or front or begining or start OR FINAL OR INITIAL) and (temp or temporary) AND (CLIENT OR SERVER OR HOST OR TARGET) and (bios or kernel or kernal or boot or dos or "disk operating system" or unformat$4 or multicast or "operating system" or "file system" or "hard drive" or rom or "in memory" or "logical volume")	USPAT	OR	ON	2007/04/11 16:02
S29	14	("6253300").URPN.	USPAT	OR	OFF	2007/04/12 08:05

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disk imaging   **SEARCH**

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1 **Browsing and placement of multiresolution images on parallel disks**   ■
Sunil Prabhakar, Divyakant Agrawal, Amr El Abbadi, Ambuj Singh, Terrence Smith
November 1997 **Proceedings of the fifth workshop on I/O in parallel and distributed systems IOPADS '97**
Publisher: ACM Press
Full text available: 📄 pdf(1.65 MB)   Additional Information: full citation, references, citings, index terms

2 **A Parallel Implementation of 4-Dimensional Haralick Texture Analysis for Disk-Resident Image Datasets**   ■
Brent Woods, Bradley Clymer, Joel Saltz, Tahsin Kurc
November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing SC '04**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(386.59 KB)   Additional Information: full citation, abstract

Texture analysis is one possible method to detect features in biomedical images. During texture analysis, texture related information is found by examining local variations in image brightness. 4-dimensional (4D) Haralick texture analysis is a method that extracts local variations along space and time dimensions and represents them as a collection of fourteen statistical parameters. However, the application of the 4D Haralick method on large time-dependent 2D and 3D image datasets is hindered by ...

3 **Image base management system: a promising tool in the large office system environment**   ■
Leonardo Felician
December 1987 **ACM SIGMIS Database**, Volume 19 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(644.75 KB)   Additional Information: full citation, abstract, index terms

Data base systems are now faced with a new application field---Image Based Systems. An "image" is simply a digitalized document page stored as a bit string. Applications in office automation include filing, large multimedia data bases, library storage and retrieval, and in science and medicine the recording and storage of satellite, geological and body scanner pictures. This paper defines the requirements for an architecture of an image base management system (IBMS) stored on large magnetic and ...

4 Virtual disk based centralized management for enterprise networks

Yuezhi Zhou, Yaoxue Zhang, Yinglian Xie

September 2006 **Proceedings of the 2006 SIGCOMM workshop on Internet network management INM '06**

Publisher: ACM Press

Full text available: pdf(290.41 KB)   Additional Information: full citation, abstract, references

> The rapid advances in hardware, software, and networks have made the management of enterprise network systems an increasingly challenging task. Due to the tight coupling between hardware, software, and data, every one of the hundreds or thousands of PCs that are connected in an enterprise environment has to be administered individually, leading to high Total Cost of Ownership (TCO). We argue that centralized management with distributed, diskless clients, yet centralized repositories of all softw ...

> **Keywords:** enterprise networks, system management, virtual disks

5 MAPS: a generalized image processor

Michael Fischer

September 1973 **ACM SIGGRAPH Computer Graphics**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: pdf(769.35 KB)   Additional Information: full citation, abstract, citings

> By approaching two and three-dimensional problems from the spatial viewpoint taken by the geographic sciences, the <u>M</u>ulti-dimensional <u>A</u>nalysis <u>P</u>rocessing <u>S</u>ystem (MAPS) is able to achieve high efficiency and large capacity in many types of interactive graphics, simulation modeling, and image processing. Spatial relationships are presented by means of color images, rather than line drawings, facilitating interpretation and ...

6 Active disks: programming model, algorithms and evaluation

Anurag Acharya, Mustafa Uysal, Joel Saltz

October 1998 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the eighth international conference on Architectural support for programming languages and operating systems ASPLOS-VIII**, Volume 33 , 32 Issue 11 , 5

Publisher: ACM Press

Full text available: pdf(1.57 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Several application and technology trends indicate that it might be both profitable and feasible to move computation closer to the data that it processes. In this paper, we evaluate *Active Disk* architectures which integrate significant processing power and memory into a disk drive and allow application-specific code to be downloaded and executed on the data that is being read from (written to) disk. The key idea is to offload bulk of the processing to the diskresident processors and to us ...

7 Graphics/image-based algorithms: The randomized sample tree: a data structure for interactive walkthroughs in externally stored virtual environments

Jan Klein, Jens Krokowski, Matthias Fischer, Michael Wand, Rolf Wanka, Friedhelm Meyer auf der Heide

November 2002 **Proceedings of the ACM symposium on Virtual reality software and technology VRST '02**

Publisher: ACM Press

Full text available: pdf(1.76 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a new data structure for rendering highly complex virtual environments of arbitrary topology. The special feature of our approach is that it allows an interactive navigation in very large scenes (30 GB/400 million polygons in our benchmark scenes) that cannot be stored in main memory, but only on a local or remote hard disk. Furthermore, it allows interactive rendering of substantially more complex scenes by instantiating objects.For the computation of an approximate image of the scen ...

Keywords: Monte Carlo techniques, level of detail algorithms, out-of-core rendering, point sample rendering, rendering systems, spatial data structures

8 Session 21: computer-communication interaction: Using high speed networks to enable distributed parallel image server systems
Brian L. Tierney, William E. Johnston, Hanan Herzog, Gary Hoo, Guojun Jin, Jason Lee, Ling Tony Chen, Doron Rotem
November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing Supercomputing '94**
Publisher: ACM Press
Full text available: pdf(989.28 KB)   Additional Information: <u>full citation, abstract, references</u>

We describe the design and implementation of a distributed parallel storage system that uses high-speed ATM networks as a key element of the architecture. Other elements include a collection of network-based disk block servers, and an associated name server that provides some file system functionality. The implementation is based on user level software that runs on UNIX workstations. Both the architecture and the implementation are intended to provide for easy and economical scalability. This ap ...

9 Technical papers: Imaging and visual analysis---Large image correction and warping in a cluster environment
Vijay S. Kumar, Benjamin Rutt, Tahsin Kurc, Umit Catalyurek, Joel Saltz, Sunny Chow, Stephan Lamont, Maryann Martone
November 2006 **Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC '06**
Publisher: ACM Press
Full text available: pdf(394.33 KB)
                html(1.86 KB)   Additional Information: <u>full citation, abstract, references</u>

This paper is concerned with efficient execution of a pipeline of data processing operations on very large images obtained from confocal microscopy instruments. We describe parallel, out-of-core algorithms for each operation in this pipeline. One of the challenging steps in the pipeline is the warping operation using inverse mapping based methods. We propose and investigate a set of algorithms to handle the warping computations on storage clusters. Our experimental results show that the proposed ...

Keywords: PC clusters, digital microscopy, imaging, out-of-core, parallel computation, warping

10 Next-generation cyber forensics: AFF: a new format for storing hard drive images
Simson L. Garfinkel
February 2006 **Communications of the ACM**, Volume 49 Issue 2
Publisher: ACM Press
Full text available: pdf(64.00 KB)
                html(13.00 KB)   Additional Information: <u>full citation, index terms</u>

11 Distributed parallel data storage systems: a scalable approach to high speed image servers

Brian Tierney, Jason Lee, Ling Tony Chen, Hanan Herzog, Gary Hoo, Guojun Jin, William E. Johnston

October 1994 **Proceedings of the second ACM international conference on Multimedia MULTIMEDIA '94**

Publisher: ACM Press

Full text available: pdf(790.57 KB)   Additional Information: full citation, abstract, references, citings, index terms

We have designed, built, and analyzed a distributed parallel storage system that will supply image streams fast enough to permit multi-user, "real-time", video-like applications in a wide-area ATM network-based Internet environment. We have based the implementation on user-level code in order to secure portability; we have characterized the performance bottlenecks arising from operating system and hardware issues, and based on this have optimized our design to make the best use ...

12 Technical session 13: managing images: An efficient parts-based near-duplicate and sub-image retrieval system

Yan Ke, Rahul Sukthankar, Larry Huston

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia MULTIMEDIA '04**

Publisher: ACM Press

Full text available: pdf(573.85 KB)   Additional Information: full citation, abstract, references, citings, index terms

We introduce a system for near-duplicate detection and sub-image retrieval. Such a system is useful for finding copyright violations and detecting forged images. We define near-duplicate as images altered with common transformations such as changing contrast, saturation, scaling, cropping, framing, etc. Our system builds a parts-based representation of images using <i>distinctive local descriptors</i> which give high quality matches even under severe transformations. To cope with the ...

Keywords: interest points, local image descriptors, locality-sensitive hashing (LSH), near-duplicate image detection, sub-image retrieval

13 Digital disks and a digital compactness measure

Chul E. Kim, Timothy A. Anderson

December 1984 **Proceedings of the sixteenth annual ACM symposium on Theory of computing STOC '84**

Publisher: ACM Press

Full text available: pdf(499.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

An O(n2) time algorithm is presented that determines whether or not a given convex digital region is a digital disk. A new compactness measure for digital regions is introduced, and an algorithm to evaluate the compactness measure of convex digital regions is also presented.

Keywords: algorithm, compactness, digital convexity, digital disk, digital region

14 The design and implementation of a progressive on-demand image dissemination system for very large images

Michael J. Owen, Andrew K. Lui, Edward H. S. Lo, Mark W. Grigg

January 2001 **Australian Computer Science Communications , Proceedings of the 24th**

Australasian conference on Computer science ACSC '01, Volume 23 Issue 1
Publisher: IEEE Computer Society, IEEE Computer Society Press
Full text available: pdf(855.36 KB)
　　　　　　　　　　　　　　　　　Additional Information: full citation, abstract, references
　　　Publisher Site

The use of progressive, on-demand image dissemination techniques can support efficient dissemination of very large images across networks. In this paper we examine the effectiveness of various design options in developing such on-demand dissemination systems. We show that the choice of the design options can have a profound impact on the efficient use of client, server, and network resources. Based on our performance evaluation experiments, we recommend that efficient dissemination can be achiev ...

15 Managing the storage and battery resources in an image capture device (digital camera) using dynamic transcoding
Surendar Chandra, Carla Schlatter Ellis, Amin Vahdat
August 2000 **Proceedings of the 3rd ACM international workshop on Wireless mobile multimedia WOWMOM '00**
Publisher: ACM Press

Full text available: pdf(970.10 KB)　　Additional Information: full citation, abstract, references, citings, index terms

Advances in hardware imaging technology and user demand for convenient mobile electronic image capture are fueling the development of inexpensive image capture devices that can acquire images rivaling the image quality of photographic film. Improvements in the hardware imaging technology have to be matched with intelligent image storage mechanisms that are aware of local storage and battery constraints. In this paper, we explore using a dynamic, informed image transcoding technique to manag ...

16 A prototype system for the electronic storage and retrieval of document images
G. R. Thoma, S. Suthasinekul, F. L. Walker, J. Cookson, M. Rashidian
July 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 3
Publisher: ACM Press

Full text available: pdf(1.04 MB)　　Additional Information: full citation, abstract, references, citings, index terms, review

A prototype system has been implemented for electronic scanning, digitization, storage, retrieval, and display of images of biomedical documents. Paper documents are scanned and digitized at a scan density of 200 picture elements (pels) per inch by either a high-speed loose-leaf scanner with an automatic document transport or a book scanner with a manual book holder. Each scanner employs a high-resolution charge-coupled device (CCD) linear array operating at a sampling rate close to 10 MHz. ...

17 Optical storage of page images and pictorial data - opportunities and needed advances in information retrieval
William R. Nugent, Jessica R. Harding
January 1983 **Proceedings of the 1983 annual conference on Computers : Extending the human resource ACM 83**
Publisher: ACM Press
Full text available: pdf(367.56 KB)　　Additional Information: full citation, abstract, references, index terms

We describe two current development projects at the Library of Congress using high-density optical storage, both of which require more advanced and improved computer-based information retrieval methodologies than existing bibliographic retrieval systems. A much greater emphasis will be placed on the information content of the articles rather than on the broad subject categories in general use for computer retrieval citations to book materials. Needed approaches include the linking of select ...

18 Optical storage of page images and pictorial data - opportunities and needed advances in information retrieval
William R. Nugent, Jessica R. Harding
October 1983 **ACM SIGCOMM Computer Communication Review , Proceedings of the eighth symposium on Data communications SIGCOMM '83**, Volume 13 Issue 4
Publisher: ACM Press
Full text available: pdf(396.98 KB)   Additional Information: full citation, abstract, references, index terms

> We describe two current development projects at the Library of Congress using high-density optical storage, both of which require more advanced and improved computer-based information retrieval methodologies than existing bibliographic retrieval systems. A much greater emphasis will be placed on the information content of the articles rather than on the broad subject categories in general use for computer retrieval citations to book materials. Needed approaches include the linking of select ...

19 Using Hilbert curve in image storing and retrieving
Zhexuan Song, Nick Roussopoulos
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia MULTIMEDIA '00**
Publisher: ACM Press
Full text available: pdf(355.12 KB)   Additional Information: full citation, abstract, references, index terms

> In this paper, we present a method to accelerate the speed of retrieving subset of uncompressed images in a database without using extra disk space. First we change the storing method: pixels of an image are saved in Hilbert order instead of Row-wise order in traditional method. After studying the property of Hilbert curve, we give a new algorithm which greatly reduces the data segment numbers on the disk. Although we have to retrieve more data than necessary, because the speed of sequential ...

20 It takes a village to build an image
R. Mark Koan, Kelly Caye, Steven K. Brawn
September 2003 **Proceedings of the 31st annual ACM SIGUCCS conference on User services SIGUCCS '03**
Publisher: ACM Press
Full text available: pdf(228.71 KB)   Additional Information: full citation, abstract, index terms

> Managing operating systems and campus-supported software can be a daunting challenge. Many colleges and universities handle these challenges by using disk imaging software to create and deploy system images to some or all of their computers. ASU West has been building and deploying system images with Ghost for many years. Recently, however, we decided to re-evaluate our imaging processes and we found a number of ways to improve them. This presentation will share what we learned. It will discuss ...
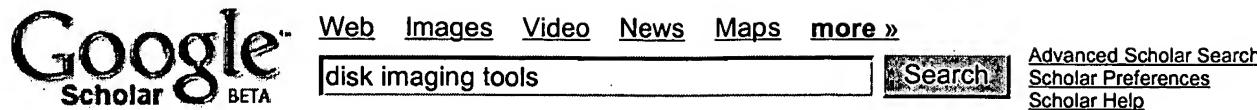>
> **Keywords**: Symantec Ghost, ghost, ghosting, image deployment, imaging, software deployment, software management

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Fast, Scalable **Disk Imaging** with Frisbee - group of 5 »
M Hibler, L Stoller, J Lepreau, R Ricci, C Barb - Proc. of the 2003 USENIX Annual Technical Conf - usenix.org
... **Disk imaging**, used by **tools** such as Ghost [7], operates below the filesystem, unconditionally replacing the contents of a **disk**. ...
Cited by 22 - Related Articles - Cached - Web Search

Synoptic Hα Full-**Disk** Observations of the Sun from Big Bear Solar Observatory–I. Instrumentation, ... - group of 4 »
C Denker, A Johannesson, W Marquette, PR Goode, H ... - Solar Physics, 1999 - Springer
... spatial resolution should prove to be one of the key diagnostic **tools** for determining ...
We first show a typical contrast-enhanced Hα full-**disk image** which was ob ...
Cited by 55 - Related Articles - Web Search - Library Search - BL Direct

An Overview of **Disk Imaging** Tool in Computer Forensics
MM Saudi - SANS Institute, 2001 - niser.org.my
... 6. Examples of **Disk Imaging Tool**. ... Users scare that if they use **disk imaging tools**, it might altered the layout of the copy and omits free and deleted space. ...
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Defining Digital Forensic Examination and Analysis **Tools** Using Abstraction Layers - group of 10 »
B Carrier - International Journal of Digital Evidence, 2003 - eng.iastate.edu
... Available at: http://www.cftt.nist.gov. [7] NIST CFTT. **Disk Imaging Tool** Specification, 3.16 edition, Oct 2001. www.ijde.org 11 Page 12. ...
Cited by 29 - Related Articles - View as HTML - Web Search

Spinning-**disk** Confocal Microscopy—A Cutting-Edge Tool for **Imaging** of Membrane Traffic - group of 3 »
A Nakano - Cell Structure and Function, 2002 - J-STAGE
... REVIEW © 2002 by Japan Society for Cell Biology Spinning-**disk** Confocal Microscopy — A Cutting-Edge **Tool** for **Imaging** of Membrane Traffic ...
Cited by 18 - Related Articles - Web Search - BL Direct

Storing a computer **disk** image within an imaged partition - group of 3 »
RM Jenevein, HS Kramer, DS Shadel, AV Lawrence, VA ... - US Patent 6,615,365, 2003 - Google Patents
... would not be restored from the **image** 106. ... backup **tools** and techniques, includ -ing **tools** and techniques for avoiding consumer confusion about **disk** size while ...
Cited by 13 - Related Articles - Web Search

Magnetic Resonance **Imaging** of the Lumbar Spine in People without Back Pain - group of 6 »
MC Jensen, MN Brant-Zawadzki, N Obuchowski, MT ... - 1994 - content.nejm.org
... CWA, Boos, N. (2001). Painful Lumbar **Disk** Derangement: Relevance of Endplate Abnormalities at MR **Imaging**. Radiology 218: 420-427 ...
Cited by 478 - Related Articles - Web Search - BL Direct

Method and system for client/server and peer-to-peer disk imaging - group of 4 »
KJ Turpin, CP Clark - US Patent 6,144,992, 2000 - Google Patents
... Likewise, computer network vendors have created **tool** sets, for use in their own
labs, to transfer data from a master computer **disk** drive to an **image** file on a ...
Cited by 20 - Related Articles - Web Search

One-to-many disk imaging transfer over a network - group of 3 »
RS Raymond, BS Dennis, EJ Ruff - US Patent 6,108,697, 2000 - Google Patents
... circuits, or 20 **tools**. Overview of Individual Computers FIG. 2 illustrates two
computers, 200 and 202, which are configured for **disk image** transfers according ...
Cited by 14 - Related Articles - Web Search

Interactive image-guided surgical system for displaying images corresponding to the placement of a ... - group of 2 »
GS Allen, RL Galloway Jr, RJ Maciunas, CA Edwards, ... - US Patent 5,230,338, 1993 -
Google Patents
... [57] ABSTRACT An interactive system for guiding the use of a surgical **tool**
uses at least one **imaging** technique, such as CT scanning. ...
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R Chandra
E Bier
D Brin
N Zeldovich
C Sapuntzakis

Virtual **disk** based centralized management for enterprise networks - group of 4 »
Y Zhou, Y Zhang, Y Xie - Proceedings of the 2006 SIGCOMM workshop on Internet network ..., 2006 - portal.acm.org
... This "golden **image**" is thus immutable and can be ... must write to the **disk** directories where ... are installed to function properly, eg, create **temporary files**. ...
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The Collective: A Cache-Based System Management Architecture - group of 13 »
R Chandra, N Zeldovich, C Sapuntzakis, MS Lam - Proceedings of 2nd USENIX Symposium on Networked Systems ... - usenix.org
... data such browser caches and **temporary files**; there is ... to use a cached block from an unrelated **disk image**. ... 9]. A different way of distributing **disk** images is ...
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Honeypot Data Analysis
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... To recover the resulting page and **temporary file** data left ... hard drive and configuration settings **files** (see the ... method is to use **disk**-cloning software, like ...
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3rd Large Installation System Administration of Windows NT Conference Paper 2000 [Technical Index] - group of 2 »
JD Martin, AD Brooks - usenix.org
... is then placed in the C:\temp directory and ... locked down by turning off floppy **disk** boot capability. ... that we can simplify the application **image** creation process ...
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A taxonomy of see-through tools - group of 14 »
EA Bier, MC Stone, K Fishkin, W Buxton, T Baudel - Proceedings of the SIGCHI conference on Human factors in ..., 1994 - portal.acm.org
... applica- tion and produces a modified **image** on the ... a large quantity of data, such as an entire **disk file**. ... particular **temporary** mode, or only when this sheet is ...
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[BOOK] Honeypots for Windows - group of 3 »
RA Grimes - 2004 - vbnettoday.com
... To recover the resulting page and **temporary file** data left ... hard drive and configuration settings **files** (see the ... method is to use **disk**-cloning software, like ...
View as HTML - Web Search - Library Search

Developing Geographic Services on the World Wide Web
AP Steinke, P Bristow - csu.edu.au
... creates the **image**, and returns it on standard output, removing the need to create a **temporary** GIF **file** on the server **disk**. ... Welcome to the **Imaging** Machine. ...
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DE Dean, C Combs - Proceedings of the 27th annual ACM SIGUCCS conference on ..., 1999 - ewu.edu
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J Tolva - Ms project paper, Georgia Institute of Technology, 1998 - mindspring.com
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(GCFA) Practical Assignment Version 1.3 by Dennis daCruz
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SD Team, M Albano, P Anderson, M Chaput, S Gaebel, ... - vismod.media.mit.edu
... window does not appear over the thumbnail **image**. ... using the Palette > Objects > Text
tool, the preview ... Workaround Workaround Edit the .Xdefaults **file** and change ...
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Systems and methods for creating three-dimensional and animated images
RC Corrales, R Souther - 2004 - freepatentsonline.com
... such as a CD-ROM 118 or a flopping **disc** 120 ... The computer 206 may then replace the
temporary background 218 with ... with the option of what type of **image file** is to ...
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... operating system: The hard-**disk** can be ... important **files**: Operating system **Temporary**
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TR Haynes, JT Paradise, C Hunt - US Patent 6,177,941, 2001 - Google Patents
... memory device 16 (such as a hard **disk**) for storing ... can still be given, eg, by a
"ghost" image appearing under ... a link is provided as a **temporary** pulldown menu ...
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[PS] DIPLOMA THESIS FOR STUD. TECHN. Steinar Hamre FACULTY OF PHYSICS, INFORMATICS AND MATHEMATICS NTNU
K Seip - 2000 - pvv.ntnu.no
... Purpose of the work: Evaluate existing solutions for **file** distribution over the
network in installation and ... 4.5.6 **Ghost** and other **disk** cloning **tools**. . . . ...
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DW Byun, SB Kim, NK Moon, F Ngan, Y Li, T Ng - **files**.harc.edu

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C Lois, JM García-Verdugo, A Alvarez-Buylla - Science, 1996 - science-mag.aaas.org
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C Lois, A Alvarez-Buylla - Science, 1994 - sciencemag.org
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Preferential **migration** of activated CD4+ and CD8+ T cells in response to MIP-1 alpha and MIP-1 beta - group of 5 »
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CD8+ T cells in response to MIP-1 alpha and MIP-1 beta. DD ...
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MR Gross, RM Coleman, RM McDowall - Science, 1988 - sciencemag.org
Discovery On Target. Science Logo. Site **Tools**. ... Related **Content**. Similar Articles
In: ... Articles. Aquatic Productivity and the Evolution of Diadromous Fish **Migration** ...
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Can otolith microchemistry chart patterns of **migration** and habitat utilization in anadromous fishes? - group of 4 »
DH Secor, A Henderson-Arzapalo, PM Piccoli - Journal of Experimental Marine Biology
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MD OHMAN, BW FROST, EB COHEN - Science, 1983 - sciencemag.org
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Y Hakamata, K Tahara, H Uchida, Y Sakuma, M ... - Biochemical and Biophysical Research Communications, 2001 - ingentaconnect.com
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Selective role of N-type calcium channels in neuronal **migration** - group of 4 »
H Komuro, P Rakic - Science, 1992 - sciencemag.org
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1 Content session 5: image annotation: SmartLabel: an object labeling tool using
iterated harmonic energy minimization
Wen Wu, Jie Yang
October 2006 **Proceedings of the 14th annual ACM international conference on Multimedia MULTIMEDIA '06**
Publisher: ACM Press
Full text available: 📄 pdf(4.40 MB)   Additional Information: full citation, abstract, references, index terms

Labeling objects in images is an essential prerequisite for many visual learning and
recognition applications that depend on training data, such as image retrieval, object
detection and recognition. Manually creating labels in images is not only time-consuming
but also subject to human labeling errors, and eventually, becomes impossible for a large
scale image database. Semi-supervised learning (SSL)algorithms such as Gaussian
random field (GRF)can be applied to labeling objects in images since ...

Keywords: gaussian random field, harmonic energy minimization, object labeling, semi-
supervised learning

2 Integrated modeling and analysis generator environment (IMAGE): a decision
support tool
Dursun Delen, Perakath C. Benjamin, Madhav Erraguntla
December 1998 **Proceedings of the 30th conference on Winter simulation WSC '98**
Publisher: IEEE Computer Society Press
Full text available: 📄 pdf(81.47 KB)   Additional Information: full citation, references, citings, index terms

3 Computers in education and business: ERIC7: an experimental tool for Content-
Based Image encoding and Retrieval under the MPEG-7 standard
L. Gagnon, S. Foucher, V. Gouaillier
January 2004 **Proceedings of the winter international synposium on Information and
communication technologies WISICT '04**
Publisher: Trinity College Dublin
Full text available: 📄 pdf(585.42 KB)   Additional Information: full citation, abstract, references

ERIC7 is a software test-bed that implements Content-Based Image Retrieval (CBIR)
compatible with the MPEG-7 multimedia standard. In its current version, the system

allows automatic MPEG-7/XML encoding of up to 15 color, texture and shape descriptors with two query modes: search from example images and database clustering. In addition, the system allows to navigate graphically among the various descriptors in the XML files in order to easily track encoding results and system performance. The sys ...

4   Medical image modeling tools and applications: Open source software for medical image processing and visualization
Terry S. Yoo, Michael J. Ackerman
February 2005 **Communications of the ACM**, Volume 48 Issue 2
Publisher: ACM Press
Full text available: pdf(128.73 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>
html(28.04 KB)

Societies often create smaller subsets or communities that connect with one another for commerce and intellectual exchange over mutual interests. In science and engineering, the need for communication among researchers is often hampered by artificial barriers of university politics, economic market forces, and the sheer momentum of an academic reward structure that values individual discovery over joint development. Recent initiatives have attempted to reduce some of these barriers, encouraging ...

5   Applications 3: tools for multimedia analysis and retrieval: A web-based system for collaborative annotation of large image and video collections: an evaluation and user study
Timo Volkmer, John R. Smith, Apostol (Paul) Natsev
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(2.02 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Annotated collections of images and videos are a necessary basis for the successful development of multimedia retrieval systems. The underlying models of such systems rely heavily on quality and availability of large training collections. The annotation of large collections, however, is a time-consuming and error prone task as it has to be performed by human annotators. In this paper we present the IBM Efficient Video Annotation (EVA) system, a server-based tool for semantic concept annotation o ...

6   Medical image modeling tools and applications: Introduction
Dimitris Metaxas
February 2005 **Communications of the ACM**, Volume 48 Issue 2
Publisher: ACM Press
Full text available: pdf(211.25 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>
html(13.27 KB)

Medical image analysis and modeling are essential to many fields of medicine, including radiology, surgery, and medical education. Traditionally, doctors have based their practice on 2D images, such as those produced from scanners and microscopes. This limits them from accurately seeing and understanding the 3D organ structure and function that is often crucial for the timely diagnosis and appropriate treatment of disease. The significant increase in computing power in recent years has allowed t ...

7   Experience with image compression chip design using unified system construction tools
Pravil Gupta, Chih-Tung Chen, J. C. DeSouza-Batista, Alice C. Parker
June 1994 **Proceedings of the 31st annual conference on Design automation DAC '94**
Publisher: ACM Press

Full text available: pdf(747.41 KB)   Additional Information: full citation, references, citings, index terms

8 Demonstration session 1: An automatic image inpaint tool

Timothy K. Shih, Liang-Chen Lu, Rong-Chi Chang

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia MULTIMEDIA '03**

Publisher: ACM Press

Full text available: pdf(479.05 KB)   Additional Information: full citation, abstract, references, index terms

Automatic digital inpainting is a challenge but interesting research area. This demonstration presents a tool, which uses a color interpolation mechanism to restore damaged images. The mechanism checks the variation of pixel blocks and restores pixels using different strategies. We test more than 1000 images, including photos, paintings, and cartoon drawings. The proposed system is also available at: http://www.mine.tku.edu.tw/demos/inpaint.

Keywords: digital inpainting, image processing, image restoration, multi-resolution inpainting

9 Human interaction: Search strategies in content-based image retrieval

Sharon McDonald, John Tait

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval SIGIR '03**

Publisher: ACM Press

Full text available: pdf(266.44 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes two studies that looked at users' ability to formulate visual queries with a Content-Based Image Retrieval system that uses dominant image colour as the primary indexing key. The first experiment examined users' performance with two visual search tools, a sketch tool and a structured browsing tool, with different types of image query. The results showed that while users were able to successfully search on the basis of colour, and were able to formulate visual queries, their ...

Keywords: content based image retrieval, visual search tools

10 Graphics Tools for Linux

Michael J. Hammel

November 1996 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(26.01 KB)   Additional Information: full citation, abstract, index terms

Can you really do professional graphic art on a Linux system? If you're aware of all the available tools, you can

11 Image-based modeling and photo editing

Byong Mok Oh, Max Chen, Julie Dorsey, Frédo Durand

August 2001 **Proceedings of the 28th annual conference on Computer graphics and interactive techniques SIGGRAPH '01**

Publisher: ACM Press

Full text available: pdf(4.01 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present an image-based modeling and editing system that takes a single photo as

input. We represent a scene as a layered collection of depth images, where each pixel encodes both color and depth. Starting from an input image, we employ a suite of user-assisted techniques, based on a painting metaphor, to assign depths and extract layers. We introduce two specific editing operations. The first, a "clone brushing tool," permits the distortion-free copying of parts of a picture, b ...

12 Medical image modeling tools and applications: Incorporating 3D virtual anatomy into the medical curriculum
Celina Imielinska, Pat Molholt
February 2005 **Communications of the ACM**, Volume 48 Issue 2
Publisher: ACM Press
Full text available: pdf(888.39 KB)
html(28.68 KB)   Additional Information: full citation, abstract, references, index terms
txt(22.63 KB)

The introduction of the Visible Human Project by Ackerman in 1995, described in the seminal paper in 1996 [9], brought a promise to anatomists that these two frozen, milled, and digitized cadavers---the Visible Male and Female---would revolutionize anatomy teaching by providing the most complete and detailed anatomical images ever. This vision could be compared to the proverbial "man on the moon" program for medical education and has proven to be much more challenging than expected. Although the ...

13 Color gamut mapping and the printing of digital color images
Maureen C. Stone, William B. Cowan, John C. Beatty
October 1988 **ACM Transactions on Graphics (TOG)**, Volume 7 Issue 4
Publisher: ACM Press
Full text available: pdf(6.06 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Principles and techniques useful for calibrated color reproduction are defined. These results are derived from a project to take digital images designed on a variety of different color monitors and accurately reproduce them in a journal using digital offset printing. Most of the images printed were reproduced without access to the image as viewed in its original form; the color specification was derived entirely from calorimetric specification. The techniques described here are not specific ...

14 System papers: exploration and retrieval tools: Tuning a CBIR system for vector images: the interface support
Tania Di Mascio, Marco Francesconi, Daniele Frigioni, Laura Tarantino
May 2004 **Proceedings of the working conference on Advanced visual interfaces AVI '04**
Publisher: ACM Press
Full text available: pdf(520.94 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a system supporting tuning and evaluation of a Content-Based Image Retrieval (CBIR) engine for *vector images*, by a graphical interface providing query-by-sketch and query-by-example interaction with query results, and analysis of result quality. Vector images are first modelled as an inertial system and then they are associated with descriptors representing visual features invariant to affine transformation. To support requirements of different application domains, the ...

Keywords: CBIR, vector images, visual interfaces

15 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems
M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1
Publisher: ACM Press

Full text available: pdf(294.13 KB)   Additional Information: full citation, abstract, references, citings, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

16 Evaluating a content based image retrieval system   ■
Sharon McDonald, Ting-Sheng Lai, John Tait
September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '01**
Publisher: ACM Press

Full text available: pdf(301.72 KB)   Additional Information: full citation, abstract, references, citings, index terms

Content Based Image Retrieval (CBIR) presents special challenges in terms of how image data is indexed, accessed, and how end systems are evaluated. This paper discusses the design of a CBIR system that uses global colour as the primary indexing key, and a user centered evaluation of the systems visual search tools. The results indicate that users are able to make use of a range of visual search tools, and that different tools are used at different points in the search process. The resu ...

Keywords: colour based indexing, content based image retrieval, general inage indexing, user centered evaluation

17 Vision-assisted image editing   ■
Eric N. Mortensen
November 1999 **ACM SIGGRAPH Computer Graphics**, Volume 33 Issue 4
Publisher: ACM Press
Full text available: pdf(555.37 KB)   Additional Information: full citation, citings, index terms

18 Editing and authoring: User-directed analysis of scanned images   ■
Steven J. Simske, Jordi Arnabat
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering DocEng '03**
Publisher: ACM Press

Full text available: pdf(3.36 MB)   Additional Information: full citation, abstract, references, citings, index terms

Digital capture (scanning in all its forms, and digital photography/video recording), in providing virtually free temporary memory of captured information, allows users to "over-gather" information during capture, and then to discard unwanted material later. For cameras and video recorders, such editing largely consists of discarding images or frames in their entirety. For scanners (and high-resolution camera/video), such editing benefits from a preview capability that provides quick and reliabl ...

Keywords: bottom-up analysis, classification, click and select, preview display, scanning, segmentation, user interface, zoning

19 Intelligent scissors for image composition

Eric N. Mortensen, William A. Barrett

September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques SIGGRAPH '95**

Publisher: ACM Press

Full text available: pdf(363.56 KB)
ps(4.92 MB)   Additional Information: full citation, references, citings, index terms

20 Perceptually-supported image editing of text and graphics

Eric Saund, David Fleet, Daniel Larner, James Mahoney

November 2003 **Proceedings of the 16th annual ACM symposium on User interface software and technology UIST '03**

Publisher: ACM Press

Full text available: pdf(1.42 MB)
wmv(3:16 MIN)
mov(3:16 MIN)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a novel image editing program emphasizing easy selection and manipulation of material found in informal, casual documents such as sketches, handwritten notes, whiteboard images, screen snapshots, and scanned documents. The program, called *ScanScribe*, offers four significant advances. First, it presents a new, intuitive model for maintaining image objects and groups, along with underlying logic for updating these in the course of an editing session. Second, ScanScribe t ...

Keywords: WYPIWYG, bitmap image, foreground/background, lattice grouping, perceptual document editing, rough document, scanscribe

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1 The interoperability power of Linux-NTFS tools   ▬
Steven Mathes
February 2007 **Linux Journal**, Volume 2007 Issue 154
Publisher: Specialized Systems Consultants, Inc.
Full text available: ⊙ html(20.59 KB)   Additional Information: full citation, abstract

Linux does NTFS better than you think.

2 Fast detection of communication patterns in distributed executions   ▬
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced
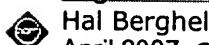   Studies on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: 🗎 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based
on process-time diagrams are often used to obtain a better understanding of the
execution of the application. The visualization tool we use is Poet, an event tracer
developed at the University of Waterloo. However, these diagrams are often very complex
and do not provide the user with the desired overview of the application. In our
experience, such tools display repeated occurrences of non-trivial commun ...

3 Digital village: Hiding data, forensics, and anti-forensics   ▬
◈ Hal Berghel
April 2007 **Communications of the ACM**, Volume 50 Issue 4
Publisher: ACM Press
Full text available: 🗎 pdf(413.95 KB)
                    ⊙ html(25.11 KB)   Additional Information: full citation, abstract, index terms

Delving into the digital warrens for concealing data.

4 Computing curricula 2001   ▬
September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press
Full text available: 📄 pdf(613.63 KB)
📄 html(2.78 KB)　　Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

5 <u>Special issue: Game-playing programs: theory and practice</u>
M. A. Bramer
April 1982 **ACM SIGART Bulletin**, Issue 80
Publisher: ACM Press
Full text available: 📄 pdf(9.23 MB)　　Additional Information: <u>full citation</u>, <u>abstract</u>

> This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

6 <u>Emerald: an architecture-driven tool compiler for FPGAs</u>
Darren C. Cronquist, Larry McMurchie
February 1996 **Proceedings of the 1996 ACM fourth international symposium on Field-programmable gate arrays FPGA '96**
Publisher: ACM Press
Full text available: 📄 pdf(212.36 KB)　　Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

7 <u>Guidance for the use of the Ada programming language in high integrity systems</u>
B. A. Wichmann
July 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(2.93 MB)　　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

> This paper is the current result of a study by the ISO HRG Rapporteur group which is being circulated for comment. Many people have contributed to this, but those who have either attended two recent meetings of group or have made substantial e-mail comments are: Praful V Bhansali (Boeing, USA), Alan Burns (University of York, UK), Bernard Carre' (Praxis Critical Systems, UK), Dan Craigen (ORA, Canada), Nick Johnson MoD, UK), Stephen Michell (Canada), Gilles Motet (DGEI/INSA, France), George Roma ...

8 <u>Cryptography and data security</u>
Dorothy Elizabeth Robling Denning
January 1982 Book
Publisher: Addison-Wesley Longman Publishing Co., Inc.
Full text available: 📄 pdf(19.47 MB)　　Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

9 <u>RAID: high-performance, reliable secondary storage</u>

Peter M. Chen, Edward K. Lee, Garth A. Gibson, Randy H. Katz, David A. Patterson
June 1994 **ACM Computing Surveys (CSUR),** Volume 26 Issue 2
Publisher: ACM Press

Full text available: pdf(3.60 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Disk arrays were proposed in the 1980s as a way to use parallelism between multiple disks to improve aggregate I/O performance. Today they appear in the product lines of most major computer manufacturers. This article gives a comprehensive overview of disk arrays and provides a framework in which to organize current and future work. First, the article introduces disk technology and reviews the driving forces that have popularized disk arrays: performance and reliability. It discusses the tw ...

Keywords: RAID, disk array, parallel I/O, redundancy, storage, striping

10 Shape-based retrieval and analysis of 3D models

Thomas Funkhouser, Michael Kazhdan
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press

Full text available: pdf(12.56 MB)   Additional Information: full citation, abstract

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

11 Fault-tolerance in the advanced automation system

Flaviu Cristian, Bob Dancey, Jon Dehn
September 1990 **Proceedings of the 4th workshop on ACM SIGOPS European workshop EW 4**
Publisher: ACM Press

Full text available: pdf(1.39 MB)   Additional Information: full citation, abstract, references, citings

The Advanced Automation System is a distributed real-time system under development by IBM's Systems Integration Division for the US Federal Aviation Administration. The system is intended to replace the present en-route and terminal approach US air traffic control computer systems over the next decade. High availability of air traffic control services is an essential requirement of the system. This paper discusses the general approach to fault-tolerance adopted in AAS, by reviewing some of the q ...

12 Automatic detection and repair of errors in data structures

Brian Demsky, Martin Rinard
October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11
Publisher: ACM Press

Full text available: pdf(340.56 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present a system that accepts a specification of key data structure consistency constraints, then dynamically detects and repairs violations of these constraints, enabling the program to continue to execute productively even in the face of otherwise crippling errors. Our experience using our system indicates that the specifications are relatively easy to develop once one understands the data structures. Furthermore, for our set of

benchmark applications, our system can effectively repair inco ...

Keywords: data structure invariants, data structure repair

13 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh
January 2006 **ACM Oral History interviews**

Publisher: ACM Press

Full text available: pdf(761.66 KB)   Additional Information: full citation, abstract

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

14 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)

September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

Publisher: ACM Press

Full text available: pdf(1.98 MB)   Additional Information: full citation, index terms

15 Using model checking to find serious file system errors

Junfeng Yang, Paul Twohey, Dawson Engler, Madanlal Musuvathi
November 2006 **ACM Transactions on Computer Systems (TOCS)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(534.00 KB)   Additional Information: full citation, abstract, references, index terms

This article shows how to use model checking to find serious errors in file systems. Model checking is a formal verification technique tuned for finding corner-case errors by comprehensively exploring the state spaces defined by a system. File systems have two dynamics that make them attractive for such an approach. First, their errors are some of the most serious, since they can destroy persistent data and lead to unrecoverable corruption. Second, traditional testing needs an impractical, expon ...

Keywords: Model checking, crash, file system, journaling, recovery

16 Intelligent storage: Cross-layer optimization for soft real-time workload

Youjip Won, Hyungkyu Chang, Jaemin Ryu, Yongdai Kim, Junseok Shim
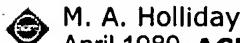August 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(1.45 MB)   Additional Information: full citation, abstract, references, index terms

In this work, we develop an intelligent storage system framework for soft real-time applications. Modern software systems consist of a collection of layers and information exchange across the layers is performed via well-defined interfaces. Due to the strictness and inflexibility of interface definition, it is not possible to pass the information specific to one layer to other layers. In practice, the exploitation of this information across the layers can greatly enhance the performance, reliabi ...

Keywords: Intelligence, autonomic computing, boosting, cross layer optimization, file system, machine learning, multimedia, storage

17 Reference history, page size, and migration daemons in local/remote architectures

M. A. Holliday

April 1989 **ACM SIGARCH Computer Architecture News , Proceedings of the third international conference on Architectural support for programming languages and operating systems ASPLOS-III**, Volume 17 Issue 2

Publisher: ACM Press

Full text available: pdf(963.79 KB)   Additional Information: full citation, abstract, references, citings, index terms

We address the problem of paged main memory management in the local/remote architecture subclass of shared memory multiprocessors. We consider the case where the operating system has primary responsibility and uses page migration as its main tool. We identify some of the key issues with respect to architectural support (reference history maintenance, and page size), and operating system mechanism (duration between daemon passes, and number of migration daemons). The experiments w ...

18 Operating system principles

Per Brinch Hansen

January 1973 Book

Publisher: Prentice-Hall, Inc.

Full text available: pdf(16.81 MB)   Additional Information: full citation, abstract, references, citings, index terms

From the Preface

MAIN GOAL

This book tries to give students of computer science and professional programmers a general understanding of *operating systems*--the programs that enable people to share computers efficiently.

To make the sharing of a computer tolerable, an operating system must enforce certain rules of behavior on all its users. One would therefore expect the designers of operating systems to do their utmost to make them as s ...

19 Geometric modeling based on triangle meshes: Geometric modeling based on triangle meshes

Mario Botsch, Mark Pauly, Christian Rossl, Stephan Bischoff, Leif Kobbelt

July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

Publisher: ACM Press

Full text available: pdf(24.22 MB)   Additional Information: full citation, references

20 Fault-tolerance in air traffic control systems

Flaviu Cristian, Bob Dancey, Jon Dehn

August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(264.57 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

The distributed real-time system services developed by Lockheed Martin's Air Traffic Management group serve the infrastructure for a number of air traffic control systems. Either completed development or under development are the US Federal Aviation Administration's Display System Replacement (DSR) system, the UK Civil Aviation Authority's New Enroute Center (NERC) system, and the Republic of China's Air Traffic Control Automated System (ATCAS). These systems are intended to replace present ...

Keywords: exception handling, failure, failure classification, failure masking, failure semantics, fault-tolerant systems, group communications, redundancy, server group, software robustness, system architecture

Results 1 - 20 of 200   Result page: **1**   2   3   4   5   6   7   8   9   10   next